

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL SERVICES PROGRAM

RCRA Sampling Investigation Report  
Standard Asbestos Company  
Kansas City, Missouri  
September 7, 1994

RECEIVED

K.C. REGIONAL OFFICE

INTRODUCTION

On September 7, 1994, Eric Sappington and Joe Boland of the ESP (Environmental Services Program) conducted sampling at the former Standard Asbestos Company located at 410 North Olive, Kansas City, Missouri. The investigation was requested by the HWP (Hazardous Waste Program), but prompted by the KCRO (Kansas City Regional Office), which had responded to a complaint that several 55-gallon drums had been removed from the building during its partial demolition. The purpose of this sampling investigation was to determine if any of the drums on-site contain hazardous waste.

Curt Dietz of the KCRO accompanied the ESP personnel during the sampling to identify the drums to be sampled and to provide background information.

METHODS

A drum log (attached as Appendix A) was completed for all drums found on-site that contained unknown materials. The drum log includes a unique identification number, a physical description of the drum and its contents, the size of the drum, an estimate of the amount in the drum, and any information or label inscribed on the outside of each drum.

Each drum was opened carefully with a bronze bung wrench and screened with a PID (Photo-ionizing detector). Samples were then collected from the drums using a dedicated glass "thief" tube for each drum. Clean gloves were used for each separate sample collected. All samples were collected by ESP personnel using ESP equipment.

A chain-of-custody form was filled out listing the sample tag numbers assigned to each sample, a description of the sample location collected (drum identification number), the time and date collected, and the parameters to be analyzed.

Samples were analyzed at the state's environmental laboratory within the Environmental Services Program in Jefferson City in accordance with the general requirements and standard operating procedures of the Generator/TSD Quality Assurance Project Plan.

40126375



SUPERFUND RECORDS

|       |                   |
|-------|-------------------|
| Site  | Standard Asbestos |
| ID #  | MO0007146889      |
| Break | 19.4              |
| Other | 9/7/94            |

The following shows a breakdown of the samples collected indicating sample number, sample location, sample type and analyses requested.

| SAMPLE NUMBER | SAMPLE LOCATION                           | SAMPLE TYPE  | ANALYSES REQUESTED     |
|---------------|---|--------------|------------------------|
| 94-1370       | Drum #2, on east side of storage building | grab, liquid | Total VOA, Flash point |
| 94-1371       | Drum #3, on east side of storage building | grab, liquid | Total VOA, Flash point |
| 94-1372       | Drum #4, inside storage building          | grab, liquid | Total VOA, Flash point |
| 94-1373       | Drum #5, inside storage building          | grab, liquid | Total VOA, Flash point |

#### OBSERVATIONS

See Appendix A for a detailed description of each drum and its contents.  
See Appendix B for a site map showing the relative locations of each sample collected.

Sample 94-1370 was a dark brown viscous liquid that separated into a clear phase and a brown phase when placed into a sample jar. It appeared to be waste oil and water. PID readings reached 419 ppm at the bung opening in drum #2 prior to this sample being collected.

Sample 94-1371 was also a dark brown viscous liquid that separated into a clear phase and a brown phase when placed into a sample jar. It appeared to be waste oil and water. PID readings reached 908 ppm at the bung opening in drum #3 prior to this sample being collected.

Sample 94-1372 was a very thin, clear liquid. A pH paper-test indicated a pH of approximately 5.0-6.0. PID readings reached 396 ppm at the bung opening in drum #4 prior to this sample being collected.

Sample 94-1373 was a thin clear liquid with a yellow tint. A pH paper-test indicated a pH of approximately 5.0. PID readings reached 966 ppm at the bung opening in drum #5 prior to this sample being collected.

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Standard Asbestos Company  
Kansas City, Missouri  
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RESULTS

The analytical results are attached to this report as Appendix C.

Submitted by:

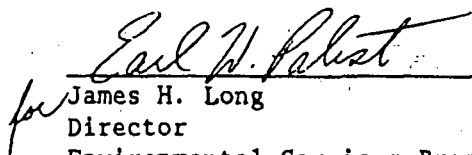


Joe Boland  
Environmental Specialist  
RCRA/Special Projects Unit  
Environmental Services Program

Date:

Oct. 4, 1994

Approved by:



for James H. Long  
Director  
Environmental Services Program

JHL:jbd

c: Kathy Flippin, QA/QC Project Officer, HWP  
James Macy, Regional Director, KCRO ✓

APPENDIX A

DRUM LOG

RCRA SAMPLING INVESTIGATION REPORT  
STANDARD ASBESTOS COMPANY  
KANSAS CITY, MISSOURI

SEPTEMBER 7, 1994

DRUM LOG

Site: Standard Asbestos

Date: 9/07/94

[illegible]

Please refer to attached comment sheet(s) for additional information regarding the drums at this site.

## DRUM LOG (Continued)

Site: Standard Asbestos

Date: 9/07/94

### ADDITIONAL COMMENTS

DRUM #1: There was evidence of spillage on sides of drum and the bung was missing. PID readings reached 67 ppm at the bung opening. It contained a dark brown, viscous liquid which appeared to be waste oil.

DRUM #2: This drum was flaking rust on its top. PID readings reached 419 ppm at the bung opening. It contained a dark brown, viscous liquid which appeared to be waste oil.

DRUM #3: This drum appeared weathered but generally in good condition. PID readings reached 908 ppm at the bung opening. It contained a dark brown liquid of medium viscosity. This also appeared to be waste oil.

DRUM #4: This drum was flaking rust at the bottom and was missing a small bung. PID readings reached 396 ppm at the bung opening. The liquid was very thin and clear. No multiple phases were visible. The pH was approximately 5.0-6.0.

DRUM #5: This drum was very rusted at the bung, but otherwise in good condition. PID readings reached 966 ppm at the bung opening. The liquid was clear with a yellow tint and no multiple phases were visible. The pH was approximately 5.0.

This drum had a label with a trade name of TARGO on it. The label read: "Dissolves tar, asphalt, bitumin and asphalt type plastic cement. Fast emulsifying. Safe to handle without gloves. Economical for large scale use." The manufacturer was American Research Corporation in Toledo, OH 43604, and St. Louis, MO.

DRUM #6: This drum was rusted and flaking rust at the bottom. PID readings reached 879 ppm at the bung opening. It contained a clear very thin yellow liquid. It appeared to be gasoline.

DRUM #7: This was a smaller, 15-gallon drum with a spigot on one end. It was rusted and flaking rust in several places. Some of this liquid was put in a sample jar to obtain field measurements for organic vapors. PID readings reached 20 ppm. It contained a clear, light brown liquid which appeared to be diesel fuel.

DRUM #8: This drum was rusted and had a hole in the top. It had a bung on the side which could not be opened. It was on its side and as it was rocked, a clear thin liquid leaked out. PID readings were 0.00 ppm and the pH was approximately 6.0. It appeared to be water.

APPENDIX B

SITE MAP

RCRA SAMPLING INVESTIGATION REPORT  
STANDARD ASBESTOS COMPANY  
KANSAS CITY, MISSOURI

SEPTEMBER 7, 1994

Storage Building #4 ● X 94-1372  
#5 ● X 94-1373

#3 ● X 94-1371

#2 ● X 94-1370

#1 ●

Open Side of Building

Standard Asbestos Building

#8 ●

#7 ●

#6 ●

Old Crane

Olive Street

X Indicates where sample was taken

● Indicates location of drum

N

STANDARD ASBESTOS COMPANY  
KANSAS CITY, MISSOURI  
SEPTEMBER 7, 1994

MDNR ENVIRONMENTAL SERVICES PROGRAM

not to scale



APPENDIX C

ANALYTICAL RESULTS

RCRA SAMPLING INVESTIGATION REPORT  
STANDARD ASBESTOS COMPANY  
KANSAS CITY, MISSOURI

SEPTEMBER 7, 1994

ENVIRONMENTAL SERVICES PROGRAM  
RESULT OF SAMPLE ANALYSIS

Sample No. 94-1370

Reported to: JOE BOLAND  
Affiliation: RCRA

Date: 9/30/94  
Project Code: 3531/3000

Sample Description:  
STANDARD ASBESTOS COMPANY, KANSAS CITY, MO  
GRAB FROM DRUM #2

Collected by: JOE BOLAND  
Affiliation: RCRA

Date: 09/07/94

PARAMETERS

RESULTS

PID  
COMMENTS : ANALYZED IN FIELD

419 ppm

FLASH PT.

</= 21 DEGREES C

VOA RESULT

|                             |                |
|-----------------------------|----------------|
| Chloromethane               | < 500000 ug/L  |
| Vinyl Chloride              | < 500000 ug/L  |
| Bromomethane                | < 500000 ug/L  |
| Chloroethane                | < 500000 ug/L  |
| 1,1-Dichloroethene          | < 500000 ug/L  |
| Acetone                     | < 2000000 ug/L |
| Carbon Disulfide            | < 500000 ug/L  |
| Methylene Chloride          | < 500000 ug/L  |
| Methyl-tertiary-butyl Ether | < 500000 ug/L  |
| trans-1,2-Dichloroethene    | < 500000 ug/L  |
| 1,1-Dichloroethane          | < 500000 ug/L  |
| 2-Butanone                  | < 2000000 ug/L |
| cis-1,2-Dichloroethene      | < 500000 ug/L  |
| Chloroform                  | < 500000 ug/L  |
| 1,1,1-Trichloroethane       | 17000000 ug/L  |

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Sample no. 94-1370

Date 9/30/94

PARAMETERS

RESULTS

|                           |                |
|---------------------------|----------------|
| Carbon Tetrachloride      | < 500000 ug/L  |
| Benzene                   | < 500000 ug/L  |
| 1,2-Dichloroethane        | < 500000 ug/L  |
| Trichloroethene           | < 500000 ug/L  |
| 1,2-Dichloropropane       | < 500000 ug/L  |
| Bromodichloromethane      | < 500000 ug/L  |
| 2-Hexanone                | < 2000000 ug/L |
| trans-1,3-Dichloropropene | < 500000 ug/L  |
| Toluene                   | < 500000 ug/L  |
| cis-1,3-Dichloropropene   | < 500000 ug/L  |
| 1,1,2-Trichloroethane     | < 500000 ug/L  |
| 4-Methyl-2-Pentanone      | < 2000000 ug/L |
| Tetrachloroethene         | < 500000 ug/L  |
| Dibromochloromethane      | < 500000 ug/L  |
| Chlorobenzene             | < 500000 ug/L  |
| Ethylbenzene              | < 500000 ug/L  |
| Total Xylenes             | 750000 ug/L    |
| Styrene                   | < 500000 ug/L  |
| Bromoform                 | < 500000 ug/L  |
| 1,1,2,2-Tetrachloroethane | < 500000 ug/L  |
| 1,3-Dichlorobenzene       | < 500000 ug/L  |
| 1,4-Dichlorobenzene       | < 500000 ug/L  |
| 1,2-Dichlorobenzene       | < 500000 ug/L  |

COMMENTS: Analyzed by GC/MS at the Missouri DNR  
Environmental Services Program laboratory.

ENVIRONMENTAL SERVICES PROGRAM  
RESULT OF SAMPLE ANALYSIS

Sample No. 94-1371

Reported to: JOE BOLAND  
Affiliation: RCRA

Date: 9/30/94  
Project Code: 3531/3000

Sample Description:  
STANDARD ASBESTOS COMPANY, KANSAS CITY, MO  
GRAB FROM DRUM #3

Collected by: JOE BOLAND  
Affiliation: RCRA

Date: 09/07/94

PARAMETERS

RESULTS

PID  
COMMENTS : ANALYZED IN FIELD

908 ppm

FLASH PT. 3.15000

</= 21 DEGREES C

VOA RESULT

RESULT

|                             |                |
|-----------------------------|----------------|
| Chloromethane               | < 500000 ug/L  |
| Vinyl Chloride              | < 500000 ug/L  |
| Bromomethane                | < 500000 ug/L  |
| Chloroethane                | < 500000 ug/L  |
| 1,1-Dichloroethene          | < 500000 ug/L  |
| Acetone                     | < 2000000 ug/L |
| Carbon Disulfide            | < 500000 ug/L  |
| Methylene Chloride          | < 500000 ug/L  |
| Methyl-tertiary-butyl Ether | < 500000 ug/L  |
| trans-1,2-Dichloroethene    | < 500000 ug/L  |
| 1,1-Dichloroethane          | < 500000 ug/L  |
| 2-Butanone                  | NOT ANALYZED   |
| cis-1,2-Dichloroethene      | < 500000 ug/L  |
| Chloroform                  | < 500000 ug/L  |
| 1,1,1-Trichloroethane       | < 500000 ug/L  |

Page 2  
Sample no. 94-1371  
Date 9/30/94

PARAMETERS

RESULTS

|                           |                |
|---------------------------|----------------|
| Carbon Tetrachloride      | < 500000 ug/L  |
| Benzene                   | < 500000 ug/L  |
| 1,2-Dichloroethane        | < 500000 ug/L  |
| Trichloroethene           | < 500000 ug/L  |
| 1,2-Dichloropropane       | < 500000 ug/L  |
| Bromodichloromethane      | < 500000 ug/L  |
| 2-Hexanone                | < 2000000 ug/L |
| trans-1,3-Dichloropropene | < 500000 ug/L  |
| Toluene                   | < 500000 ug/L  |
| cis-1,3-Dichloropropene   | < 500000 ug/L  |
| 1,1,2-Trichloroethane     | < 500000 ug/L  |
| 4-Methyl-2-Pentanone      | < 2000000 ug/L |
| Tetrachloroethene         | < 500000 ug/L  |
| Dibromochloromethane      | < 500000 ug/L  |
| Chlorobenzene             | < 500000 ug/L  |
| Ethylbenzene              | < 500000 ug/L  |
| Total Xylenes             | 1000000 ug/L   |
| Styrene                   | < 500000 ug/L  |
| Bromoform                 | < 500000 ug/L  |
| 1,1,2,2-Tetrachloroethane | < 500000 ug/L  |
| 1,3-Dichlorobenzene       | < 500000 ug/L  |
| 1,4-Dichlorobenzene       | < 500000 ug/L  |
| 1,2-Dichlorobenzene       | < 500000 ug/L  |

COMMENTS: Analyzed by GC/MS at the Missouri DNR  
Environmental Services Program laboratory.

ENVIRONMENTAL SERVICES PROGRAM  
RESULT OF SAMPLE ANALYSIS

Sample No. 94-1372

Reported to: JOE BOLAND  
Affiliation: RCRA

Date: 9/20/94  
Project Code: 3531/3000

Sample Description:  
STANDARD ASBESTOS COMPANY, KANSAS CITY, MO  
GRAB FROM DRUM #4

Collected by: JOE BOLAND  
Affiliation: RCRA

Date: 09/07/94

PARAMETERS

RESULTS

pH  
COMMENTS : ANALYZED IN FIELD

5

PID  
COMMENTS : ANALYZED IN FIELD

396 ppm

FLASH PT.

23 DEGREES C

VOA RESULT

|                             |              |
|-----------------------------|--------------|
| Chloromethane               | < 5000 ug/L  |
| Vinyl Chloride              | < 5000 ug/L  |
| Bromomethane                | < 5000 ug/L  |
| Chloroethane                | < 5000 ug/L  |
| 1,1-Dichloroethene          | < 5000 ug/L  |
| Acetone                     | < 20000 ug/L |
| Carbon Disulfide            | < 5000 ug/L  |
| Methylene Chloride          | < 5000 ug/L  |
| Methyl-tertiary-butyl Ether | < 5000 ug/L  |
| trans-1,2-Dichloroethene    | < 5000 ug/L  |
| 1,1-Dichloroethane          | < 5000 ug/L  |
| 2-Butanone                  | < 20000 ug/L |

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Sample no. 94-1372

Date 9/20/94

PARAMETERS

RESULTS

|                           |              |
|---------------------------|--------------|
| cis-1,2-Dichloroethene    | < 5000 ug/L  |
| Chloroform                | < 5000 ug/L  |
| 1,1,1-Trichloroethane     | < 5000 ug/L  |
| Carbon Tetrachloride      | < 5000 ug/L  |
| Benzene                   | < 5000 ug/L  |
| 1,2-Dichloroethane        | < 5000 ug/L  |
| Trichloroethene           | < 5000 ug/L  |
| 1,2-Dichloropropane       | < 5000 ug/L  |
| Bromodichloromethane      | < 5000 ug/L  |
| 2-Hexanone                | < 20000 ug/L |
| trans-1,3-Dichloropropene | < 5000 ug/L  |
| Toluene                   | 31000 ug/L   |
| cis-1,3-Dichloropropene   | < 5000 ug/L  |
| 1,1,2-Trichloroethane     | < 5000 ug/L  |
| 4-Methyl-2-Pentanone      | < 20000 ug/L |
| Tetrachloroethene         | < 5000 ug/L  |
| Dibromochloromethane      | < 5000 ug/L  |
| Chlorobenzene             | < 5000 ug/L  |
| Ethylbenzene              | 60000 ug/L   |
| Total Xylenes             | 163000 ug/L  |
| Styrene                   | < 5000 ug/L  |
| Bromoform                 | < 5000 ug/L  |
| 1,1,2,2-Tetrachloroethane | < 5000 ug/L  |
| 1,3-Dichlorobenzene       | < 5000 ug/L  |
| 1,4-Dichlorobenzene       | < 5000 ug/L  |
| 1,2-Dichlorobenzene       | < 5000 ug/L  |

COMMENTS: Analyzed by GC/MS at the Missouri DNR  
Environmental Services Program laboratory.

ENVIRONMENTAL SERVICES PROGRAM  
RESULT OF SAMPLE ANALYSIS

Sample No. 94-1373

Reported to: JOE BOLAND  
Affiliation: RCRA

Date: 9/30/94  
Project Code: 3531/3000

Sample Description:  
STANDARD ASBESTOS COMPANY, KANSAS CITY, MO  
GRAB FROM DRUM #5

Collected by: JOE BOLAND  
Affiliation: RCRA

Date: 09/07/94

PARAMETERS

RESULTS

pH  
COMMENTS : ANALYZED IN FIELD

5

PID  
COMMENTS : ANALYZED IN FIELD

966 ppm

FLASH PT.

</= 16 DEGREES C

VOA RESULT

|                             |                |
|-----------------------------|----------------|
| Chloromethane               | < 500000 ug/L  |
| Vinyl Chloride              | < 500000 ug/L  |
| Bromomethane                | < 500000 ug/L  |
| Chloroethane                | < 500000 ug/L  |
| 1,1-Dichloroethene          | < 500000 ug/L  |
| Acetone                     | < 2000000 ug/L |
| Carbon Disulfide            | < 500000 ug/L  |
| Methylene Chloride          | < 500000 ug/L  |
| Methyl-tertiary-butyl Ether | < 500000 ug/L  |
| trans-1,2-Dichloroethene    | < 500000 ug/L  |
| 1,1-Dichloroethane          | < 500000 ug/L  |
| 2-Butanone                  | < 2000000 ug/L |



Page 2

Sample no. 94-1373

Date 9/30/94

PARAMETERS

RESULTS

|                           |                |
|---------------------------|----------------|
| cis-1,2-Dichloroethene    | < 500000 ug/L  |
| Chloroform                | < 500000 ug/L  |
| 1,1,1-Trichloroethane     | < 500000 ug/L  |
| Carbon Tetrachloride      | < 500000 ug/L  |
| Benzene                   | < 500000 ug/L  |
| 1,2-Dichloroethane        | < 500000 ug/L  |
| Trichloroethene           | < 500000 ug/L  |
| 1,2-Dichloropropane       | < 500000 ug/L  |
| Bromodichloromethane      | < 500000 ug/L  |
| 2-Hexanone                | < 2000000 ug/L |
| trans-1,3-Dichloropropene | < 500000 ug/L  |
| Toluene                   | < 500000 ug/L  |
| cis-1,3-Dichloropropene   | < 500000 ug/L  |
| 1,1,2-Trichloroethane     | < 500000 ug/L  |
| 4-Methyl-2-Pentanone      | < 2000000 ug/L |
| Tetrachloroethene         | < 500000 ug/L  |
| Dibromochloromethane      | < 500000 ug/L  |
| Chlorobenzene             | < 500000 ug/L  |
| Ethylbenzene              | < 500000 ug/L  |
| Total Xylenes             | 860000 ug/L    |
| Styrene                   | < 500000 ug/L  |
| Bromoform                 | < 500000 ug/L  |
| 1,1,2,2-Tetrachloroethane | < 500000 ug/L  |
| 1,3-Dichlorobenzene       | < 500000 ug/L  |
| 1,4-Dichlorobenzene       | 2800000 ug/L   |
| 1,2-Dichlorobenzene       | 170000000 ug/L |

COMMENTS: Analyzed by GC/MS at the Missouri DNR  
Environmental Services Program laboratory.